

#11

1638

## RAW SEQUENCE LISTING

DATE: 07/16/2001

PATENT APPLICATION: US/09/558,284

TIME: 14:46:25

Input Set : A:\PTO\_VSK.txt

Output Set: N:\CRF3\07162001\I558284.raw

4 <110> APPLICANT: Uwe Sonnewald  
 5 Marcus Ebneith  
 7 <120> TITLE OF INVENTION: 2-Deoxyglucose-6-phosphate (2-DOG-6-P) phosphatase DNA  
 sequences as

ENTERED

8 selection marker in plants  
 10 <130> FILE REFERENCE: VOS-12 CON  
 12 <140> CURRENT APPLICATION NUMBER: 09/558,284  
 14 <141> CURRENT FILING DATE: 2000-04-25  
 16 <150> PRIOR APPLICATION NUMBER: PCT/EP98/02069  
 18 <151> PRIOR FILING DATE: 1998-04-09  
 20 <160> NUMBER OF SEQ ID NOS: 4  
 22 <170> SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 758  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: Saccharomyces cerevisiae  
 31 <400> SEQUENCE: 1

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 33 Met Ala Glu Phe Ser Ala Asp Leu Cys Leu Phe Asp Leu Asp  
 34 1 5 10  
 36 ggt acc ata gtg agt aca aca gtg gcc gca gag aaa gca tgg acc aag 98  
 37 Gly Thr Ile Val Ser Thr Thr Val Ala Ala Glu Lys Ala Trp Thr Lys  
 38 15 20 25 30  
 40 ttg tgt tac gaa tac ggt gtt gat cct tcc gag tta ttt aag cat tct 146  
 41 Leu Cys Tyr Glu Tyr Gly Val Asp Pro Ser Glu Leu Phe Lys His Ser  
 42 35 40 45  
 44 cat ggt gca aga aca caa gag gtt ttg aga agg ttt ttc cct aaa ttg 194  
 45 His Gly Ala Arg Thr Gln Glu Val Leu Arg Arg Phe Phe Pro Lys Leu  
 46 50 55 60  
 48 gat gat aca gac aat aaa ggt gtt ctt gct cta gaa aaa gat att gcc 242  
 49 Asp Asp Thr Asp Asn Lys Gly Val Leu Ala Leu Glu Lys Asp Ile Ala  
 50 65 70 75  
 52 cat agt tac ttg gat aca gta agc ctt att cct ggt gca gag aac tta 290  
 53 His Ser Tyr Leu Asp Thr Val Ser Leu Ile Pro Gly Ala Glu Asn Leu  
 54 80 85 90  
 56 ctg tta tcg tta gat gta gat act gag act caa aaa aag tta cct gaa 338  
 57 Leu Leu Ser Leu Asp Val Asp Thr Glu Thr Gln Lys Lys Leu Pro Glu  
 58 95 100 105 110  
 60 agg aaa tgg gct atc gtt acc tct ggt tct cca tat ttg gca ttt tca 386  
 61 Arg Lys Trp Ala Ile Val Thr Ser Gly Ser Pro Tyr Leu Ala Phe Ser  
 62 115 120 125  
 64 tgg ttc gag aca ata ttg aaa aat gtt gga aag ccc aaa gtt ttc att 434  
 65 Trp Phe Glu Thr Ile Leu Lys Asn Val Gly Lys Pro Lys Val Phe Ile  
 66 130 135 140  
 68 act ggg ttt gac gtg aag aac ggt aag cct gat ccc gag ggt tat tca 482  
 69 Thr Gly Phe Asp Val Lys Asn Gly Lys Pro Asp Pro Glu Gly Tyr Ser  
 70 145 150 155  
 72 aga gct cgt gat tta ttg cgt caa gat ttg caa tta act ggt aaa cag 530

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73 Arg Ala Arg Asp Leu Leu Arg Gln Asp Leu Gln Leu Thr Gly Lys Gln
74      160      165      170
76 gat ctg aag tat gtt gtc ttc gaa gat gca ccc gtg ggc ata aag gcc      578
77 Asp Leu Lys Tyr Val Val Phe Glu Asp Ala Pro Val Gly Ile Lys Ala
78 175      180      185      190
80 ggc aaa gca atg ggc gcc att act gtg ggt ata aca tcc tcg tat gac      626
81 Gly Lys Ala Met Gly Ala Ile Thr Val Gly Ile Thr Ser Ser Tyr Asp
82      195      200      205
84 aag agc gtt tta ttt gac gca gga gca gat tat gta gtc tgt gat ttg      674
85 Lys Ser Val Leu Phe Asp Ala Gly Ala Asp Tyr Val Val Cys Asp Leu
86      210      215      220
88 aca cag gtt tcc gtg gtt aag aac aat gaa aac ggt att gtc atc cag      722
89 Thr Gln Val Ser Val Val Lys Asn Asn Glu Asn Gly Ile Val Ile Gln
90      225      230      235
92 gta aac aac cct ttg aca agg gcc tgagtagtcg ac      758
93 Val Asn Asn Pro Leu Thr Arg Ala
94      240      245
97 <210> SEQ ID NO: 2
98 <211> LENGTH: 246
99 <212> TYPE: PRT
100 <213> ORGANISM: Saccharomyces cerevisiae
102 <400> SEQUENCE: 2
103 Met Ala Glu Phe Ser Ala Asp Leu Cys Leu Phe Asp Leu Asp Gly Thr
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106 Ile Val Ser Thr Thr Val Ala Ala Glu Lys Ala Trp Thr Lys Leu Cys
107      20      25      30
109 Tyr Glu Tyr Gly Val Asp Pro Ser Glu Leu Phe Lys His Ser His Gly
110      35      40      45
112 Ala Arg Thr Gln Glu Val Leu Arg Arg Phe Phe Pro Lys Leu Asp Asp
113      50      55      60
115 Thr Asp Asn Lys Gly Val Leu Ala Leu Glu Lys Asp Ile Ala His Ser
116      65      70      75      80
118 Tyr Leu Asp Thr Val Ser Leu Ile Pro Gly Ala Glu Asn Leu Leu Leu
119      85      90      95
121 Ser Leu Asp Val Asp Thr Glu Thr Gln Lys Lys Leu Pro Glu Arg Lys
122      100      105      110
124 Trp Ala Ile Val Thr Ser Gly Ser Pro Tyr Leu Ala Phe Ser Trp Phe
125      115      120      125
127 Glu Thr Ile Leu Lys Asn Val Gly Lys Pro Lys Val Phe Ile Thr Gly
128      130      135      140
130 Phe Asp Val Lys Asn Gly Lys Pro Asp Pro Glu Gly Tyr Ser Arg Ala
131 145      150      155      160
133 Arg Asp Leu Leu Arg Gln Asp Leu Gln Leu Thr Gly Lys Gln Asp Leu
134      165      170      175
136 Lys Tyr Val Val Phe Glu Asp Ala Pro Val Gly Ile Lys Ala Gly Lys
137      180      185      190
139 Ala Met Gly Ala Ile Thr Val Gly Ile Thr Ser Ser Tyr Asp Lys Ser
140      195      200      205
142 Val Leu Phe Asp Ala Gly Ala Asp Tyr Val Val Cys Asp Leu Thr Gln

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143      210      215      220
145 Val Ser Val Val Lys Asn Asn Glu Asn Gly Ile Val Ile Gln Val Asn
146 225      230      235      240
148 Asn Pro Leu Thr Arg Ala
149      245
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153 <211> LENGTH: 36
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA sequence
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165 <210> SEQ ID NO: 4
166 <211> LENGTH: 33
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA sequence
173 <400> SEQUENCE: 4
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## VERIFICATION SUMMARY

DATE: 07/16/2001

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TIME: 14:46:26

Input Set : A:\PTO\_VSK.txt

Output Set: N:\CRF3\07162001\I558284.raw

L:32 M:112 C: (48) String data converted to lower case,  
M:112 Repeated in SeqNo=1  
L:161 M:112 C: (48) String data converted to lower case,  
L:174 M:112 C: (48) String data converted to lower case,